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=>
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L5      STRUCTURE UPLOADED

=> d l5
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L5                STR
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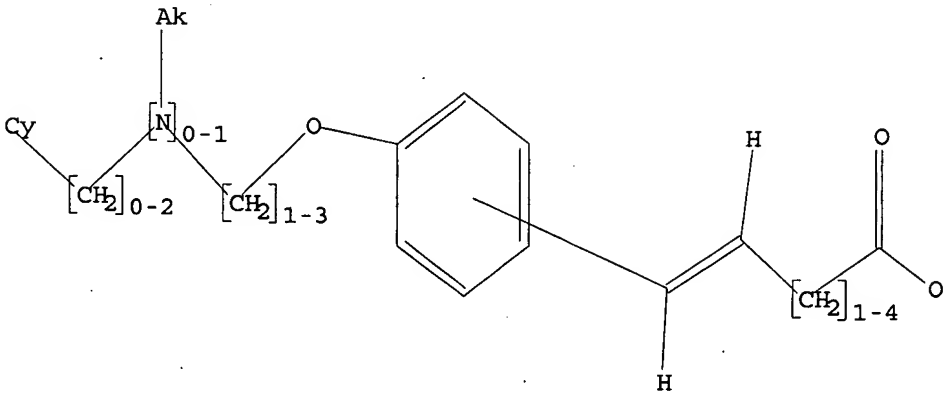


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G1 H,Cl,Br,F,I,Me,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu


Structure attributes must be viewed using STN Express query preparation.


=> s l5
SAMPLE SEARCH INITIATED 11:11:20 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    12370 TO ITERATE

 16.2% PROCESSED     2000 ITERATIONS                                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.02

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:      240736 TO   254064
PROJECTED ANSWERS:              0 TO        0

L6             0 SEA SSS SAM L5

=> s l5 full
FULL SEARCH INITIATED 11:11:27 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   246839 TO ITERATE

100.0% PROCESSED   246839 ITERATIONS                            19 ANSWERS
SEARCH TIME: 00.00.05

L7            19 SEA SSS FUL L5

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             172.10     386.92

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                 ENTRY    SESSION
CA SUBSCRIBER PRICE                               0.00      -5.46

FILE 'CAPLUS' ENTERED AT 11:11:38 ON 01 NOV 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 1 Nov 2007 VOL 147 ISS 19
FILE LAST UPDATED: 31 Oct 2007 (20071031/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

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=> s l7
L8          14 L7

=> s l7 not PY > 2003
            14 L7
       4901458 PY > 2003
L9           9 L7 NOT PY > 2003

=> d l9 ibib abs hitstr 1-
YOU HAVE REQUESTED DATA FROM 9 ANSWERS - CONTINUE? Y/(N):y

L9   ANSWER 1 OF 9  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         1998:500248  CAPLUS
DOCUMENT NUMBER:          129:244979
TITLE:                    The unwanted synthesis of (E,E)-4,21-dimethoxy-2,19-
                          dioxahexacyclo[30,2,2,215,18,13,7,120,24]tetratriacont
                          an-3,5,7(35),13,15,17,20,22,24(38),30,32,34,36,39-
                          tetradecaen-12,29-dione and other attempts at the
                          synthesis of acerogenins
AUTHOR(S):                Nogradi, Mihaly; Keser, Gyorgy M.; Kajtar-Peredy,
                          Maria; Vermes, Borbala; Ha, Nguyen Thi Thu; Dinya,
                          Zoltan
CORPORATE SOURCE:         Institute of Organic Chemistry, Technical University
                          of Budapest, Budapest, H-1521, Hung.
SOURCE:                   ACH - Models in Chemistry (1998), 135(1-2), 57-78
                          CODEN: ACMCEI; ISSN: 1217-8969
PUBLISHER:                Akademiai Kiado
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
OTHER SOURCE(S):          CASREACT 129:244979
GI
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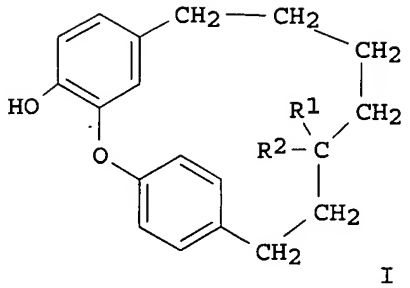

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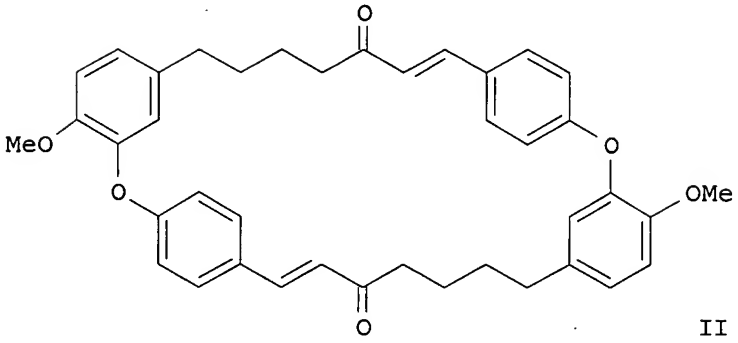


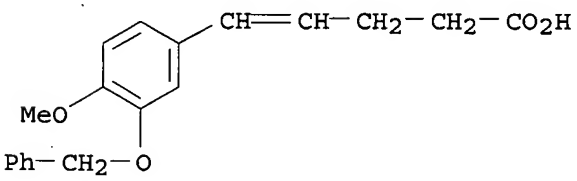
II

AB Attempts to synthesize acerogenins A (I; R1 = OH, R2 = H) and C (I; R1R2 = O), diaryl ether type macrocyclic diarylheptanoid constituents of Acer nikoense by macrocyclization involving the formation of (i) a diarylether bond or (ii) one of the bonds in the C7 chain resulted in polymeric products or the title compound II.

IT 213264-55-2P, 5-(3-Benzyloxy-4-methoxyphenyl)-4-pentenoic acid
213264-56-3P, Methyl 5-(3-benzyloxy-4-methoxyphenyl)-4-pentenoate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(attempts at the synthesis of acerogenins via a macrocyclization route)

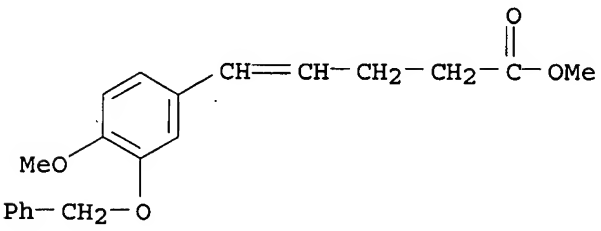
RN 213264-55-2 CAPLUS

CN 4-Pentenoic acid, 5-[4-methoxy-3-(phenylmethoxy)phenyl]- (CA INDEX NAME)



RN 213264-56-3 CAPLUS

CN 4-Pentenoic acid, 5-[4-methoxy-3-(phenylmethoxy)phenyl]-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

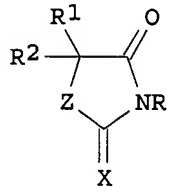
L9 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:155097 CAPLUS
DOCUMENT NUMBER: 126:157496
TITLE: Preparation of oxazolidinediones and analogs as antitumor agents
INVENTOR(S): Sohda, Takashi; Matsutani, Etsuya; Momose, Yu
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 158 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9700249	A1	19970103	WO 1996-JP1643	19960614
W: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CZ, EE, GE, HU, IL, IS, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
JP 09136877	A	19970527	JP 1996-107989	19960426
AU 9660168	A	19970115	AU 1996-60168	19960614

PRIORITY APPLN. INFO.:

JP 1995-150048	A	19950616
JP 1995-234235	A	19950912
JP 1996-107989	A	19960426
WO 1996-JP1643	W	19960614

OTHER SOURCE(S): MARPAT 126:157496
GI



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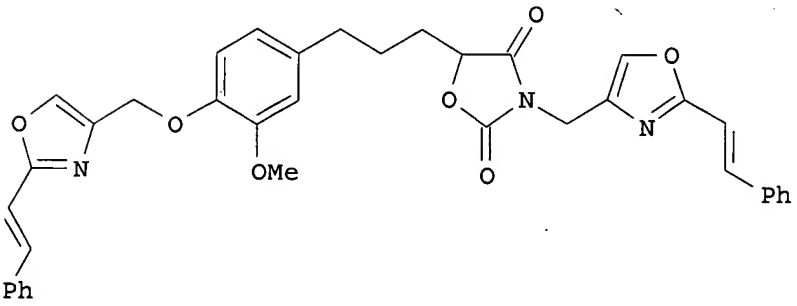


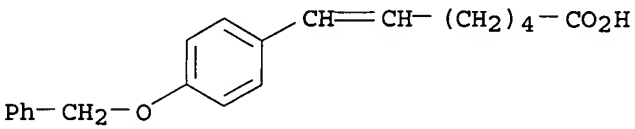
II

AB Title compds. [I; R = (un)substituted hydrocarbyl; R1 = H; R2 = CHR3Z1R4; R3 = H; R1R3 = bond; R4 = (un)substituted hydroxyphenyl, -hydrocarbyloxyphenyl, -2-hydroxypyridyl, etc.; X = O or S; Z = O, S,

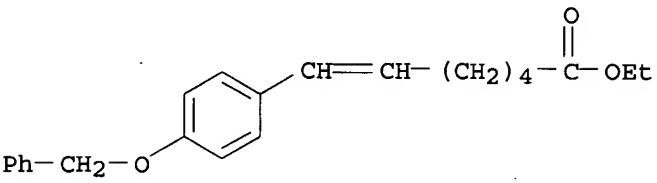
(alkyl)imino; Z1 = hydrocarbylene] were prepared Thus, 4-isopropoxy-3-methoxycinnamaldehyde (preparation given) was condensed with 2,4-oxazolidinedione and the hydrogenated and deprotected product etherified and N-alkylated in successive steps by 4-chloromethyl-2-[(E)-2-phenylethenyl]oxazole (preparation given) to give title compound II. Data for biol. activity of I were given.

IT 186895-09-0P 186895-10-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of oxazolidinediones and analogs as antitumor agents)

RN 186895-09-0 CAPLUS
CN 6-Heptenoic acid, 7-[4-(phenylmethoxy)phenyl]- (9CI) (CA INDEX NAME)



RN 186895-10-3 CAPLUS
CN 6-Heptenoic acid, 7-[4-(phenylmethoxy)phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



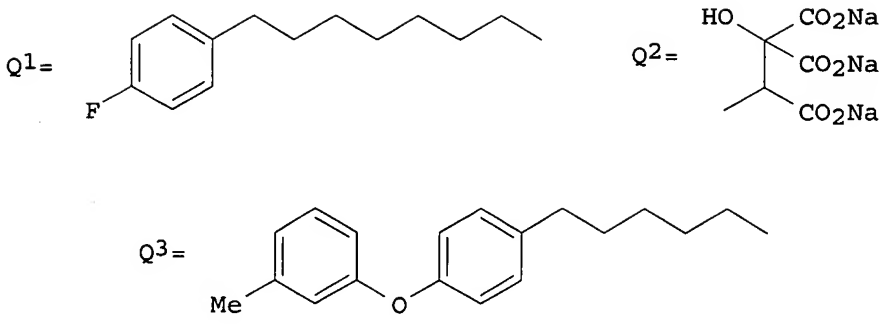
L9 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:	1995:804319 CAPLUS
DOCUMENT NUMBER:	123:198425
TITLE:	Preparation of tricarboxylic acid derivatives as squalene synthetase inhibitors
INVENTOR(S):	Kobayashi, Takamitsu; Tamura, Kunio; Yoshida, Mitsutaka; Koga, Hiroshi
PATENT ASSIGNEE(S):	Chugai Seiyaku Kabushiki Kaisha, Japan
SOURCE:	PCT Int. Appl., 102 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	Japanese
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9504025	A1	19950209	WO 1994-JP1249	19940729
W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, GE, HU, KE, KG, KR, KZ, LK, LT, LV, MD, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
JP 07112954	A	19950502	JP 1994-207897	19940728
AU 9472383	A	19950228	AU 1994-72383	19940729
PRIORITY APPLN. INFO.:			JP 1993-227745 A	19930729
			WO 1994-JP1249 W	19940729
OTHER SOURCE(S):	MARPAT 123:198425			

GI

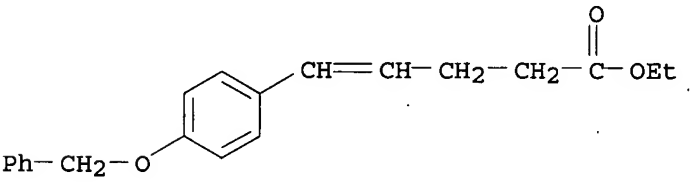


AB The title compds. R1AR2 (I) [R1 represents optionally substituted saturated or unsatd. alkyl; R2 represents (CH2)n-1CH(CO2R3)C(CO2R4)(CO2R5)(OR6), etc.; R3, R4 and R5 represent each hydrogen or lower alkyl; R6 represents hydrogen or alkyl; and n represents 1 or 2; A represents O, S, etc.], useful as squalene synthetase inhibiting anticholesteremics, are prepared In an in vitro test for squalene synthetase inhibiting activity, I [R1 = Q1; A = O; R2 = Q2] (preparation given) showed IC50 of 1.88 x 10-8 M. In the above test, I [R1 = Q3; A = O; R2 = Q2] (preparation given) showed IC50 of 0.20 x 10-8 M. The squalene synthetase inhibiting activities of 20 compds. of this invention are given in a table in this document.

IT 167987-40-8P 167987-41-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of tricarboxylic acid derivs. as squalene synthetase inhibitors)

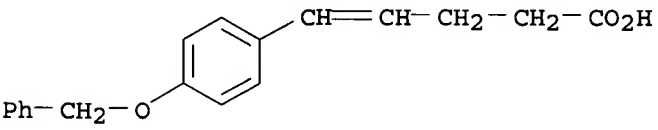
RN 167987-40-8 CAPLUS

CN 4-Pentenoic acid, 5-[4-(phenylmethoxy)phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 167987-41-9 CAPLUS

CN 4-Pentenoic acid, 5-[4-(phenylmethoxy)phenyl]- (9CI) (CA INDEX NAME)



L9 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:458694 CAPLUS

DOCUMENT NUMBER: 113:58694

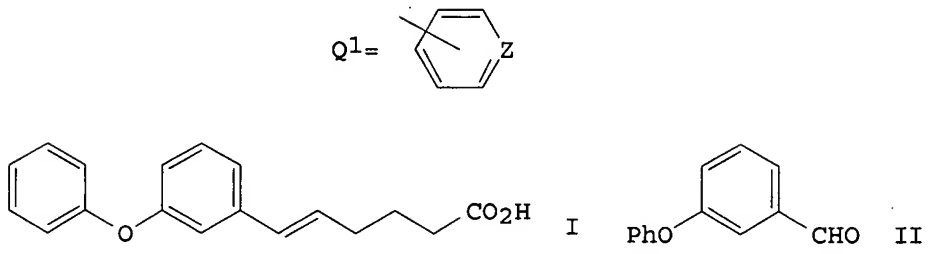
TITLE: Preparation of arylalkynoic, alkenoic or alkanoic compounds as antiallergy and antiinflammatory agents

INVENTOR(S): Shih, Neng Y.; Blythin, David J.

PATENT ASSIGNEE(S): Schering Corp., USA
SOURCE: U.S., 15 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4897397	A	19900130	US 1988-285894	19881216

PRIORITY APPLN. INFO.: US 1988-285894 19881216
OTHER SOURCE(S): CASREACT 113:58694; MARPAT 113:58694
GI

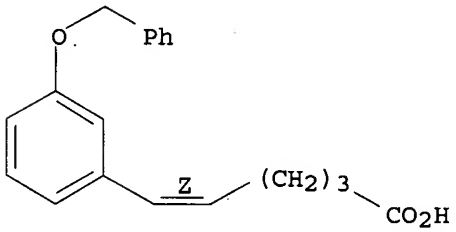


AB R4(CHR3)mYArX(CR5R6)nCOR1 [m = 0-4; n = 2-6; Ar = (substituted) benzene or naphthalene ring; X = C.tplbond.C, CH:CH, CH2CH2; Y = O, S, etc.; R1 = alkoxy, OH, etc.; R3 = H, alkyl, alkenyl, alkynyl, alkoxy, alkylthio (a proviso is given); R4 = H, alkyl, alkenyl, Q1, etc.; Z = N, CH, etc.; R5, R6 = H, alkyl, alkoxy, alkylthio (a proviso is given), were prepared Alkenoic acid I (prepared from benzaldehyde II) in vitro at 50 μM gave 74% inhibition of 5-lipoxygenase.

IT 128133-62-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of inflammation and allergy inhibitor)

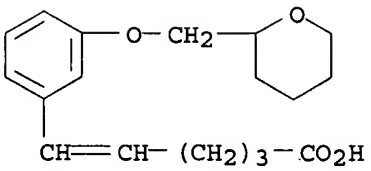
RN 128133-62-0 CAPLUS
CN 5-Hexenoic acid, 6-[3-(phenylmethoxy)phenyl]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

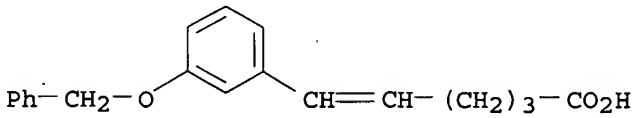


IT 128133-67-5P 128133-69-7P 128133-74-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as inflammation and allergy inhibitor)

RN 128133-67-5 CAPLUS
CN 5-Hexenoic acid, 6-[3-[(tetrahydro-2H-pyran-2-yl)methoxy]phenyl]- (9CI) (CA INDEX NAME)

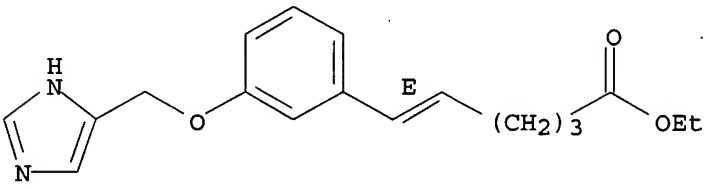


RN 128133-69-7 CAPLUS
CN 5-Hexenoic acid, 6-[3-(phenylmethoxy)phenyl]- (9CI) (CA INDEX NAME)



RN 128133-74-4 CAPLUS
CN 5-Hexenoic acid, 6-[3-(1H-imidazol-4-ylmethoxy)phenyl]-, ethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L9 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1986:478641 CAPLUS
DOCUMENT NUMBER: 105:78641
TITLE: Catechol derivatives
INVENTOR(S): Murase, Kiyoshi; Mase, Toshiyasu; Okada, Minoru; Tomioka, Kenichi
PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60260532	A	19851223	JP 1984-117850	19840607

PRIORITY APPLN. INFO.: JP 1984-117850 19840607
OTHER SOURCE(S): CASREACT 105:78641
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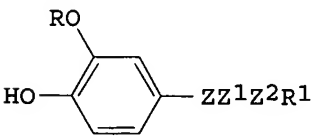

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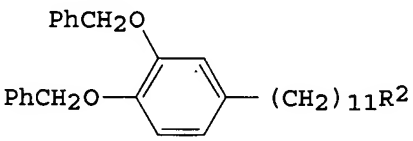


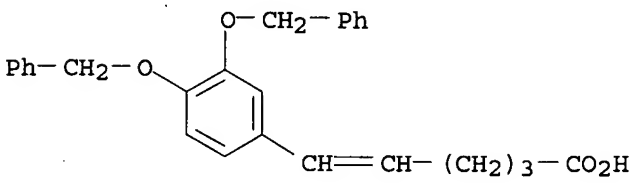
II

AB Catechol derivs. I [R = H, alkyl; R1 = H, OH, Ph, (Ph or OH-substituted) alkoxy, alkylthio; Z, Z2 = (OH-substituted) C1-20 alkylene; Z1 = O, S], useful as antiallergic agents (no data), were prepared Thus, 12 g II (R2 = OH) was treated with 6 g MeSO2Cl in a mixture of CH2Cl2 and pyridine, and then treated with NaI in acetone to give 13 g II (R2 = iodo), which was treated with 0.3 g HOCH2CH2OH in DMF over NaH at 40-50° for 2 h under stirring to give 0.4 g II (R2 = OCH2CH2OH) (III). Then III was reduced over Pd/C in EtOH at room temperature and normal pressure to give 0.2 g I [R = H, R1 = OH, Z = (CH2)11, Z1 = O, Z2 = CH2CH2].

IT 95301-41-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and catalytic reduction of)

RN 95301-41-0 CAPLUS

CN 5-Hexenoic acid, 6-[3,4-bis(phenylmethoxy)phenyl]- (9CI) (CA INDEX NAME)



L9 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1985:113041 CAPLUS

DOCUMENT NUMBER: 102:113041

TITLE: Catechol derivatives

INVENTOR(S): Murase, Kiyoshi; Arima, Hideki; Mase, Toshiyasu; Tomioka, Kenichi

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd. , Japan

SOURCE: Eur. Pat. Appl., 85 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

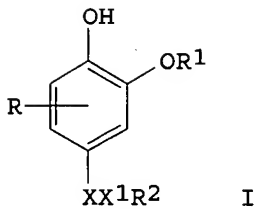
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 125919	A2	19841121	EP 1984-303257	19840514
EP 125919	A3	19870121		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
JP 59225136	A	19841218	JP 1983-83748	19830513
JP 60092230	A	19850523	JP 1983-199854	19831025
JP 60142935	A	19850729	JP 1983-248034	19831229
JP 60178837	A	19850912	JP 1984-34979	19840224
JP 04037812	B	19920622		
CA 1246610	A1	19881213	CA 1984-453422	19840502
ES 532455	A1	19850616	ES 1984-532455	19840511
US 4618627	A	19861021	US 1984-609143	19840511
SU 1424729	A3	19880915	SU 1984-3743757	19840511

PRIORITY APPLN. INFO.:
JP 1983-83748 A 19830513
JP 1983-199854 A 19831025
JP 1983-248034 A 19831229
JP 1984-34979 A 19840224

OTHER SOURCE(S): CASREACT 102:113041; MARPAT 102:113041

GI



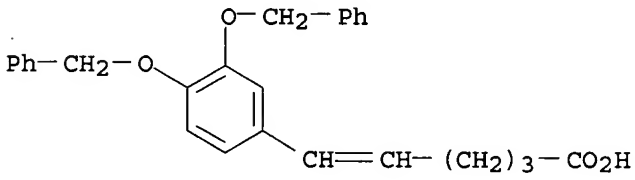
I

AB Title compds. I (X = C1-15 alkylene, vinylene; X1 = CO, CR3OR4; R = H, halo; R1, R3, R4 = H, C1-5 alkyl; R2 = H, C1-15 alkyl, cycloalkyl), which inhibit SRS-A (slow reacting substance of anaphylaxis), and are useful in the treatment of allergic conditions such as asthma and ischemic heart disease, were prepared Thus, 3,4-(PhCH2O)2C6H3CHO underwent Wittig reaction with (MeO)2P(O)CH2COCHMeBu to give 3,4-(PhCH2O)2C6H3CH:CHCOCHMeBu, which was reduced with LiAlH4 to give 3,4-(PhCH2O)2(C6H3CH:CHCH(OH)CHMeBu. Catalytic hydrogenation of this gave 3,4-(HO)2C6H3CH2CH2CH(OH)CHMeBu (II). At 100 μg/kg in rats, II inhibited production of SRS-A by 76.6%, and histamine by 37.8%, in the passive peritoneal anaphylaxis test.

IT 95301-41-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)

RN 95301-41-0 CAPLUS

CN 5-Hexenoic acid, 6-[3,4-bis(phenylmethoxy)phenyl]- (9CI) (CA INDEX NAME)



L9 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1984:630780 CAPLUS

DOCUMENT NUMBER: 101:230780

TITLE: Carbon-13 NMR spectra of cannabinoids. Part 2. Side-chain substituted tetrahydrocannabinols and synthetic intermediates

AUTHOR(S): Franke, Ingo; Schmidt, Burkhard; Dietrich, Wolfgang; Binder, Michael

CORPORATE SOURCE: Inst. Physiol. Chem., Ruhr-Univ., Bochum, D-4630/1, Fed. Rep. Ger.

SOURCE: Helvetica Chimica Acta (1984), 67(5), 1233-7
CODEN: HCACAV; ISSN: 0018-019X

DOCUMENT TYPE: Journal

LANGUAGE: English

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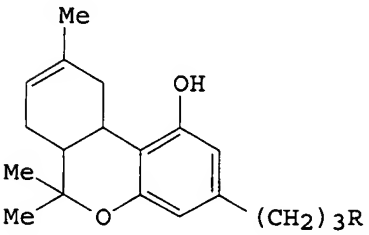

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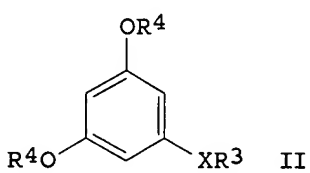


II

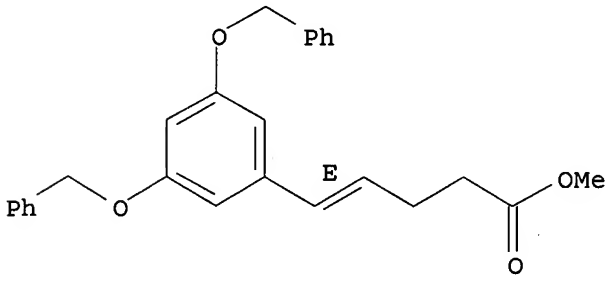
AB The 13C-NMR spectra of 8 semi-synthetic cannabinoids I (R = CHR1COR2 where R1 = H, Me; R2 = OH, OMe, NHEt) and 8 synthetic intermediates II [R3 = CH2CH2Br, CH2CH2OPh, CHR1CO2Me; R4 = H, Me, CH2Ph; X = (CH2)3, CH:CHCH2] were analyzed in detail and their signals assigned based on their chemical shifts, splitting patterns in 1H-off-resonance decoupling expts., incremental calcns., and model considerations.

IT 77523-18-3
RL: PRP (Properties)
(C-13 NMR of)

RN 77523-18-3 CAPLUS

CN 4-Pentenoic acid, 5-[3,5-bis(phenylmethoxy)phenyl]-, methyl ester, (E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



L9 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1981:407466 CAPLUS

DOCUMENT NUMBER: 95:7466

TITLE: Synthesis of cannabinoid model compounds. Part 2. (3R,4R)-Δ1(6)-Tetrahydrocannabinol-5"-oic acid and 4"(R,S)-methyl-(3R,4R)-Δ1(6)-tetrahydrocannabinol-5"-oic acid

AUTHOR(S): Franke, Ingo; Binder, Michael

CORPORATE SOURCE: Inst. Physiol. Chem., Ruhr-Univ., Bochum, D-4630/1, Fed. Rep. Ger.

SOURCE: Helvetica Chimica Acta (1980), 63(8), 2508-14
CODEN: HCACAV; ISSN: 0018-019X

DOCUMENT TYPE: Journal

LANGUAGE: English

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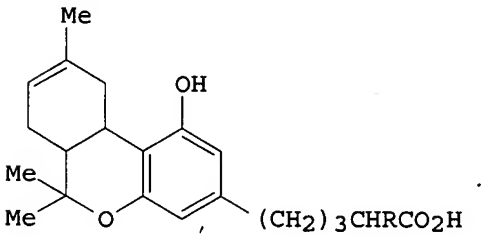

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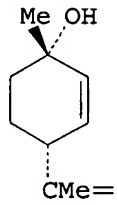

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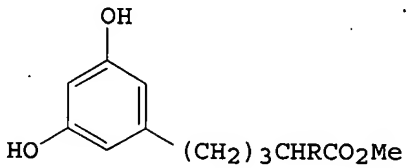

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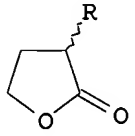


IV

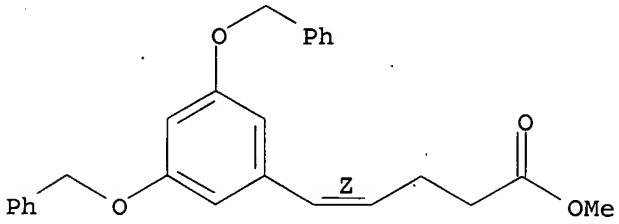
AB Cannabinoids I (R =H, Me) were prepared by cycloaddn. of (+)-trans-p-mentha-2,8-dien-1-ol (II) with the resorcinols III (R = H, Me) followed by hydrolysis. III were obtained by Wittig condensation of 3,5-(PhCH2O)2C6H3CHO, prepared by LiAlH4 reduction of 3,5-(PhCH2O)2C6H3CO2Me and MnO2 oxidation of 3,5-(PhCH2O)2C6H3CH2OH, with Ph3P:CHCH2CHRCO2Me, prepared via ring cleavage (HBr-MeOH) of the butyrolactone IV (R = H, Me) and reaction of the resulting BrCH2CH2CHRCO2Me with PPh3.

IT 77523-24-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and cycloaddn. reaction with menthadienol)

RN 77523-24-1 CAPLUS

CN 4-Pentenoic acid, 5-[3,5-bis(phenylmethoxy)phenyl]-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

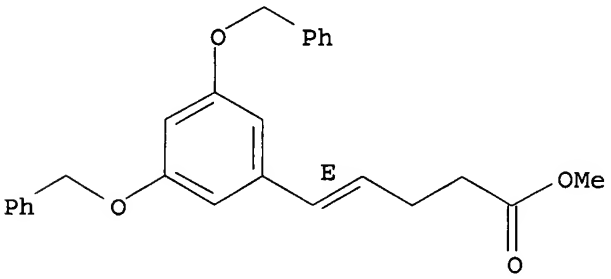


IT 77523-18-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)

RN 77523-18-3 CAPLUS

CN 4-Pentenoic acid, 5-[3,5-bis(phenylmethoxy)phenyl]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

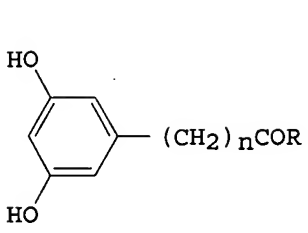
Double bond geometry as shown.



L9 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:	1978:6659 CAPLUS
DOCUMENT NUMBER:	88:6659
TITLE:	Synthesis of nitrogen-analogous Δ8-tetrahydrocannabinols
AUTHOR(S):	Lotz, Friedhelm; Kraatz, Udo; Korte, Friedhelm
CORPORATE SOURCE:	Inst. Chem., Tech. Univ. Muenchen, Freising-Weihenstephan, Fed. Rep. Ger.
SOURCE:	Justus Liebigs Annalen der Chemie (1977), (7), 1132-40 CODEN: JLACBF; ISSN: 0075-4617
DOCUMENT TYPE:	Journal
LANGUAGE:	German
OTHER SOURCE(S):	CASREACT 88:6659

GI



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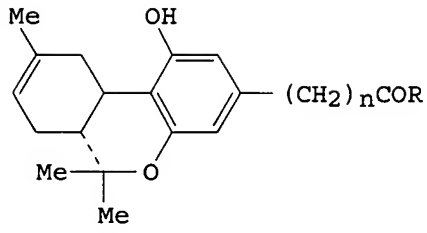

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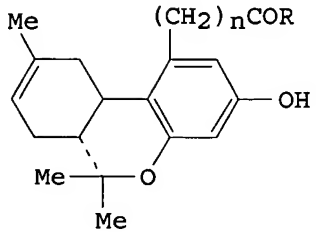


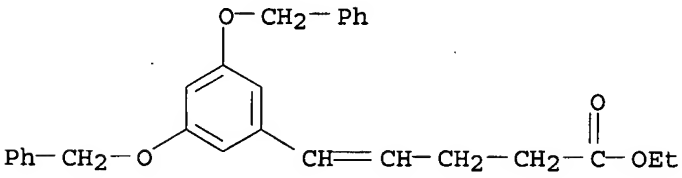
III

AB Resorcinols I (n = 2, R = MeO; n = 4, R = EtO, 1-piperidinyl) reacted with (+)-trans-2,8-methandien-1-ol to give cannabinols II (n and R the same) and isomeric III (n = 2, R = MeO; n = 4, R = EtO). II (n = 2, R = MeO; n = 4, R = EtO) and Me2NH gave the N analogs II (n = 2, 4; R = NMe2), which were reduced to the corresponding amines. I (n = 4, R = 1-piperidinyl, EtO) were prepared by Wittig olefination of 3,5-(R1O)2C6H3CHO (R1 = Me, PhCH2) with Ph3P+(CH2)3COR2 (R2 = 1-piperidinyl or EtO, resp.) to give 3,5-(R1O)2C6H3CH:CH(CH2)2COR2, which were catalytically hydrogenated. 3,5-(PhCH2O)2C6H3CHO condensed with CH2(CO2H)2 to give 3,5-(PhCH2O)2C6H3CH:CHCO2H which was esterified and the resulting ester hydrogenated to give I (n = 2, R = MeO).

IT 64793-96-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)

RN 64793-96-0 CAPLUS

CN 4-Pentenoic acid, 5-[3,5-bis(phenylmethoxy)phenyl]-, ethyl ester (9CI) (CA INDEX NAME)



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NEWS 4	JUL 02	CHEMCATS accession numbers revised
NEWS 5	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 6	JUL 16	CAplus enhanced with French and German abstracts
NEWS 7	JUL 18	CA/CAplus patent coverage enhanced
NEWS 8	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 9	JUL 30	USGENE now available on STN
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NEWS 12	AUG 13	CA/CAplus enhanced with additional kind codes for granted patents
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NEWS 18	SEP 13	FORIS renamed to SOFIS
NEWS 19	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS 20	SEP 17	CA/CAplus enhanced with printed CA page images from 1967-1998
NEWS 21	SEP 17	CAplus coverage extended to include traditional medicine patents
NEWS 22	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
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NEWS 24	OCT 19	BEILSTEIN updated with new compounds

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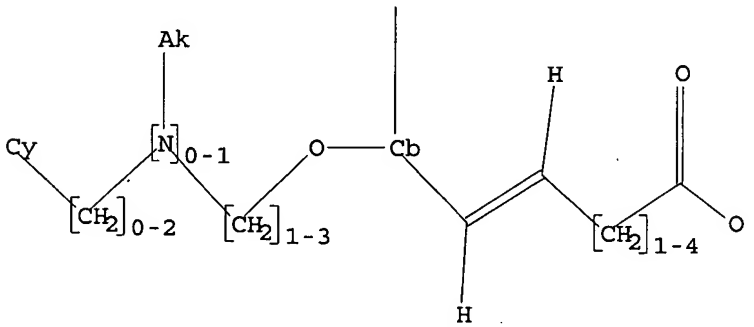


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INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
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FULL FILE PROJECTIONS: ONLINE **COMPLETE**
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SEARCH TIME: 00.00.08

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L3 7 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
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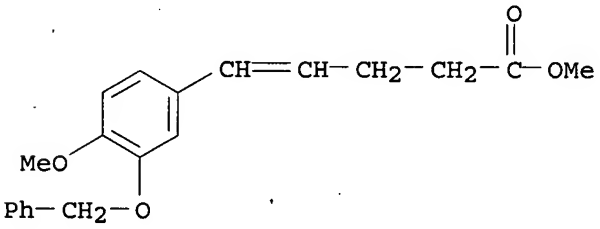
MF C20 H22 O4



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L4 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:682217 CAPLUS
DOCUMENT NUMBER: 129:316029
TITLE: Novel 3-aryl-3-phenylpropanamines with anticholinergic activity, their use in the treatment of urinary incontinence, and their preparation
INVENTOR(S): Johansson, Rolf; Haraldsson, Martin; Ringberg, Erik; Vagberg, Jan; Beierlein, Katarina; Emond, Rikard; Sjoberg, Birger
PATENT ASSIGNEE(S): Pharmacia and Upjohn AB, Swed.
SOURCE: PCT Int. Appl., 88 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9843942	A1	19981008	WO 1998-SE556	19980326
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RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
ZA 9802478	A	19981008	ZA 1998-2478	19980324
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CA 2284977	A1	19981008	CA 1998-2284977	19980326
AU 9867552	A	19981022	AU 1998-67552	19980326
AU 739186	B2	20011004		
BR 9808069	A	20000308	BR 1998-8069	19980326
EP 1019358	A1	20000719	EP 1998-912864	19980326
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EP 1019358	B2	20070912		
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PT 1019358	T	20030930	PT 1998-912864	19980326
ES 2199433	T3	20040216	ES 1998-912864	19980326
CN 1636967	A	20050713	CN 2004-10095276	19980326
TW 555735	B	20031001	TW 1998-87105376	19980409
NO 9904438	A	19991126	NO 1999-4438	19990913
NO 314724	B1	20030512		
MX 9908862	A	20000228	MX 1999-8862	19990927

US 6313132 B1 20011106 US 1999-381868 19990927
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OTHER SOURCE(S): MARPAT 129:316029
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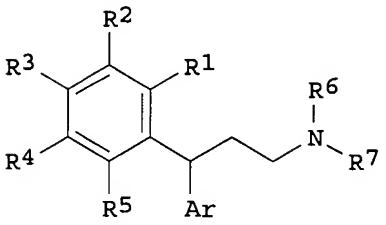

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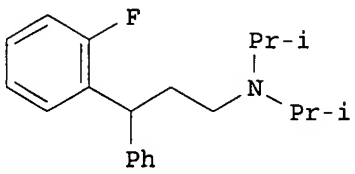


II

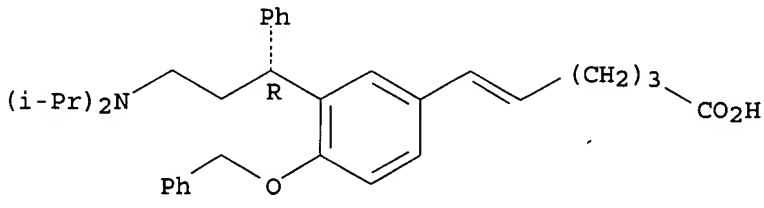
AB The invention relates to novel compds. I [wherein R1 = H, OH, alkyl, alkoxy, CF3, amino, alkanoylamino, alkanoyloxy, halo, hydroxyalkyl; R2, R3 = H, OH, alkyl, alkoxy, hydroxyalkyl, halo, carbamoyl, etc.; R4 = (un)substituted alkyl or amino, CHO, CO2H, NO2, cyano, N3, alkoxy, and may also be H, Me, OMe, etc. under some circumstances; R5 = H, halo, alkyl; Ar = (un)substituted (hetero)aryl; R6, R7 = hydrocarbyl with optional OH groups or O bridge(s), and may form a ring; with several provisos], their salts with physiol. acceptable acids, their racemic mixts., and the individual enantiomers. The compds. have anticholinergic activity, and in particular are of use in the treatment of urinary incontinence. Sixty synthetic examples are given, and approx. 90 compds. (including free bases and salts) were prepared and/or claimed. For instance, Wittig-type reaction of (EtO)2P(O)CH2CON(Pr-iso)2 with 2-fluorobenzophenone, followed by hydrogenation of the formed olefin and reduction of the amide with LiAlH4, gave after acidification, title compound II.HCl. In a test for inhibition of carbachol-induced contraction of isolated guinea pig bladder strips, II had a KB value of 10 nM, and other compds. had values ranging from 1.18 nM to 3315 nM.

IT 214601-55-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of arylphenylpropanamines as anticholinergic agents)

RN 214601-55-5 CAPLUS

CN 5-Hexenoic acid, 6-[3-[(1R)-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-(phenylmethoxy)phenyl]- (CA INDEX NAME)

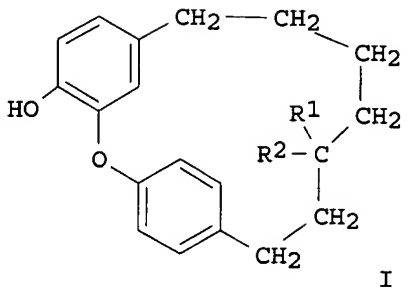
Absolute stereochemistry.
Double bond geometry unknown.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:500248 CAPLUS

DOCUMENT NUMBER: 129:244979
TITLE: The unwanted synthesis of (E,E)-4,21-dimethoxy-2,19-dioxahexacyclo[30,2,2,215,18,13,7,120,24]tetratriacontan-3,5,7(35),13,15,17,20,22,24(38),30,32,34,36,39-tetradecaen-12,29-dione and other attempts at the synthesis of acerogenins
AUTHOR(S): Nogradi, Mihaly; Keser, Gyorgy M.; Kajtar-Peredy, Maria; Vermes, Borbala; Ha, Nguyen Thi Thu; Dinya, Zoltan
CORPORATE SOURCE: Institute of Organic Chemistry, Technical University of Budapest, Budapest, H-1521, Hung.
SOURCE: ACH - Models in Chemistry (1998), 135(1-2), 57-78
CODEN: ACMCEI; ISSN: 1217-8969
PUBLISHER: Akademiai Kiado
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 129:244979
GI



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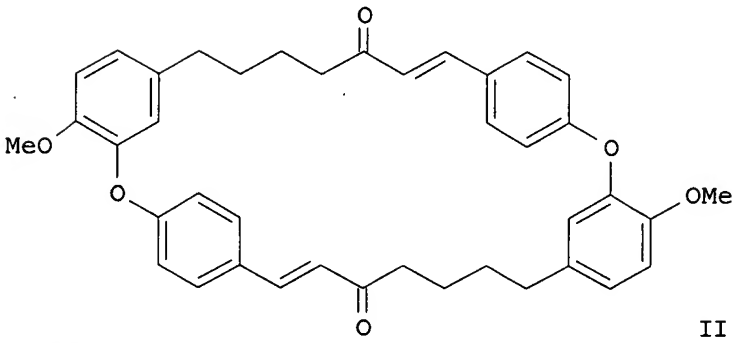


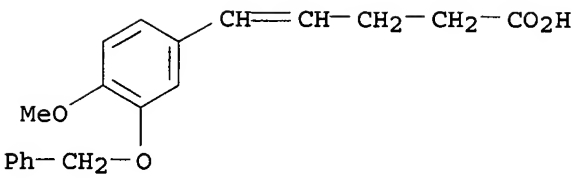
II

AB Attempts to synthesize acerogenins A (I; R1 = OH, R2 = H) and C (I; R1R2 = O), diaryl ether type macrocyclic diarylheptanoid constituents of Acer nikoense by macrocyclization involving the formation of (i) a diarylether bond or (ii) one of the bonds in the C7 chain resulted in polymeric products or the title compound II.

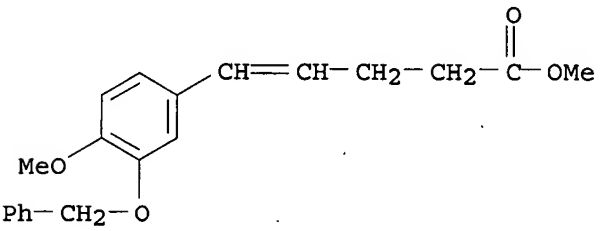
IT 213264-55-2P, 5-(3-Benzyloxy-4-methoxyphenyl)-4-pentenoic acid
213264-56-3P, Methyl 5-(3-benzyloxy-4-methoxyphenyl)-4-pentenoate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(attempts at the synthesis of acerogenins via a macrocyclization route)

RN 213264-55-2 CAPLUS

CN 4-Pentenoic acid, 5-[4-methoxy-3-(phenylmethoxy)phenyl]- (CA INDEX NAME)



RN 213264-56-3 CAPLUS
CN 4-Pentenoic acid, 5-[4-methoxy-3-(phenylmethoxy)phenyl]-, methyl ester (CA INDEX NAME)

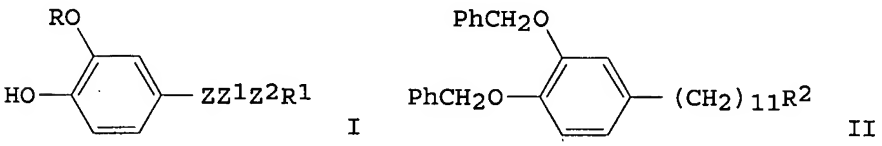


REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1986:478641 CAPLUS
DOCUMENT NUMBER: 105:78641
TITLE: Catechol derivatives
INVENTOR(S): Murase, Kiyoshi; Mase, Toshiyasu; Okada, Minoru; Tomioka, Kenichi
PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60260532	A	19851223	JP 1984-117850	19840607

PRIORITY APPLN. INFO.: JP 1984-117850 19840607
OTHER SOURCE(S): CASREACT 105:78641
GI



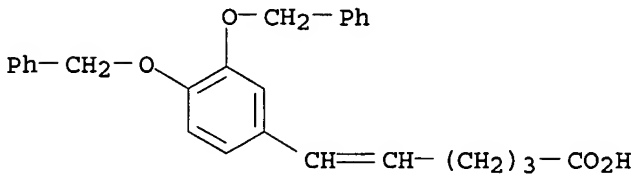
AB Catechol derivs. I [R = H, alkyl; R1 = H, OH, Ph, (Ph or OH-substituted) alkoxy, alkylthio; Z, Z2 = (OH-substituted) C1-20 alkylene; Z1 = O, S], useful as antiallergic agents (no data), were prepared Thus, 12 g II (R2 = OH) was treated with 6 g MeSO2Cl in a mixture of CH2Cl2 and pyridine, and then treated with NaI in acetone to give 13 g II (R2 = iodo), which was treated with 0.3 g HOCH2CH2OH in DMF over NaH at 40-50° for 2 h under stirring to give 0.4 g II (R2 = OCH2CH2OH) (III). Then III was reduced over Pd/C in EtOH at room temperature and normal pressure to give 0.2 g

I [R = H, R1 = OH, Z = (CH2)11, Z1 = O, Z2 = CH2CH2].

IT 95301-41-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and catalytic reduction of)

RN 95301-41-0 CAPLUS

CN 5-Hexenoic acid, 6-[3,4-bis(phenylmethoxy)phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1985:113041 CAPLUS

DOCUMENT NUMBER: 102:113041

TITLE: Catechol derivatives

INVENTOR(S): Murase, Kiyoshi; Arima, Hideki; Mase, Toshiyasu; Tomioka, Kenichi

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd. , Japan

SOURCE: Eur. Pat. Appl., 85 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

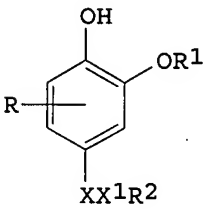
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 125919	A2	19841121	EP 1984-303257		19840514
EP 125919	A3	19870121			
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE					
JP 59225136	A	19841218	JP 1983-83748		19830513
JP 60092230	A	19850523	JP 1983-199854		19831025
JP 60142935	A	19850729	JP 1983-248034		19831229
JP 60178837	A	19850912	JP 1984-34979		19840224
JP 04037812	B	19920622			
CA 1246610	A1	19881213	CA 1984-453422		19840502
ES 532455	A1	19850616	ES 1984-532455		19840511
US 4618627	A	19861021	US 1984-609143		19840511
SU 1424729	A3	19880915	SU 1984-3743757		19840511
PRIORITY APPLN. INFO.:			JP 1983-83748	A	19830513
			JP 1983-199854	A	19831025
			JP 1983-248034	A	19831229
			JP 1984-34979	A	19840224

OTHER SOURCE(S): CASREACT 102:113041; MARPAT 102:113041

GI



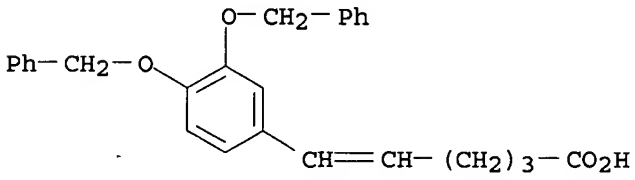
I

AB Title compds. I (X = C1-15 alkylene, vinylene; X1 = CO, CR3OR4; R = H, halo; R1, R3, R4 = H, C1-5 alkyl; R2 = H, C1-15 alkyl, cycloalkyl), which inhibit SRS-A (slow reacting substance of anaphylaxis), and are useful in the treatment of allergic conditions such as asthma and ischemic heart disease, were prepared Thus, 3,4-(PhCH2O)2C6H3CHO underwent Wittig reaction with (MeO)2P(O)CH2COCHMeBu to give 3,4-(PhCH2O)2C6H3CH:CHCOCHMeBu, which was reduced with LiAlH4 to give 3,4-(PhCH2O)2(C6H3CH:CHCH(OH)CHMeBu. Catalytic hydrogenation of this gave 3,4-(HO)2C6H3CH2CH2CH(OH)CHMeBu (II). At 100 μg/kg in rats, II inhibited production of SRS-A by 76.6%, and histamine by 37.8%, in the passive peritoneal anaphylaxis test.

IT 95301-41-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)

RN 95301-41-0 CAPLUS

CN 5-Hexenoic acid, 6-[3,4-bis(phenylmethoxy)phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1984:630780 CAPLUS

DOCUMENT NUMBER: 101:230780

TITLE: Carbon-13 NMR spectra of cannabinoids. Part 2. Side-chain substituted tetrahydrocannabinols and synthetic intermediates

AUTHOR(S): Franke, Ingo; Schmidt, Burkhard; Dietrich, Wolfgang; Binder, Michael

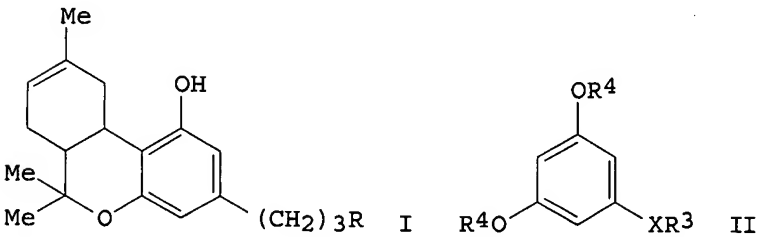
CORPORATE SOURCE: Inst. Physiol. Chem., Ruhr-Univ., Bochum, D-4630/1, Fed. Rep. Ger.

SOURCE: Helvetica Chimica Acta (1984), 67(5), 1233-7
CODEN: HCACAV; ISSN: 0018-019X

DOCUMENT TYPE: Journal

LANGUAGE: English

GI

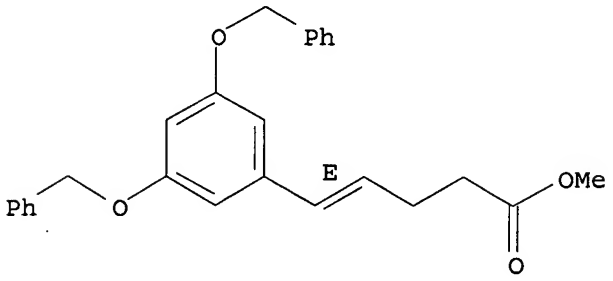


AB The 13C-NMR spectra of 8 semi-synthetic cannabinoids I (R = CHR1COR2 where R1 = H, Me; R2 = OH, OMe, NHEt) and 8 synthetic intermediates II [R3 = CH2CH2Br, CH2CH2OPh, CHR1CO2Me; R4 = H, Me, CH2Ph; X = (CH2)3, CH:CHCH2] were analyzed in detail and their signals assigned based on their chemical shifts, splitting patterns in 1H-off-resonance decoupling expts., incremental calcns., and model considerations.

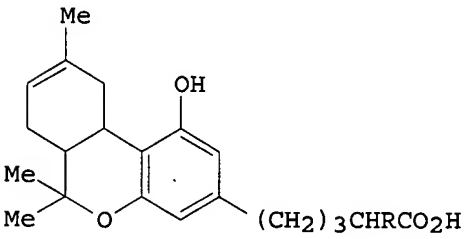
IT 77523-18-3

RL: PRP (Properties)
(C-13 NMR of)
RN 77523-18-3 CAPLUS
CN 4-Pentenoic acid, 5-[3,5-bis(phenylmethoxy)phenyl]-, methyl ester, (E)-
(9CI) (CA INDEX NAME)

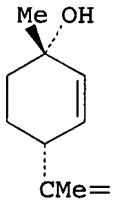
Double bond geometry as shown.



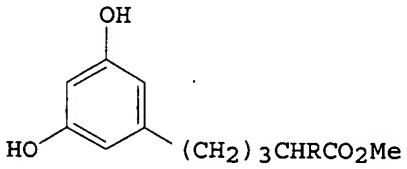
L4 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1981:407466 CAPLUS
DOCUMENT NUMBER: 95:7466
TITLE: Synthesis of cannabinoid model compounds. Part 2. (3R,4R)-Δ1(6)-Tetrahydrocannabinol-5"-oic acid and 4"(R,S)-methyl-(3R,4R)-Δ1(6)-tetrahydrocannabinol-5"-oic acid
AUTHOR(S): Franke, Ingo; Binder, Michael
CORPORATE SOURCE: Inst. Physiol. Chem., Ruhr-Univ., Bochum, D-4630/1, Fed. Rep. Ger.
SOURCE: Helvetica Chimica Acta (1980), 63(8), 2508-14
CODEN: HCACAV; ISSN: 0018-019X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



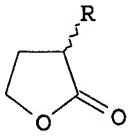
I



II



III



IV

AB Cannabinoids I (R =H, Me) were prepared by cycloaddn. of (+)-trans-p-mentha-2,8-dien-1-ol (II) with the resorcinols III (R = H, Me) followed by hydrolysis. III were obtained by Wittig condensation of 3,5-(PhCH2O)2C6H3CHO, prepared by LiAlH4 reduction of 3,5-(PhCH2O)2C6H3CO2Me and
MnO2 oxidation of 3,5-(PhCH2O)2C6H3CH2OH, with Ph3P:CHCH2CHRCO2Me, prepared via ring cleavage (HBr-MeOH) of the butyrolactone IV (R = H, Me) and reaction

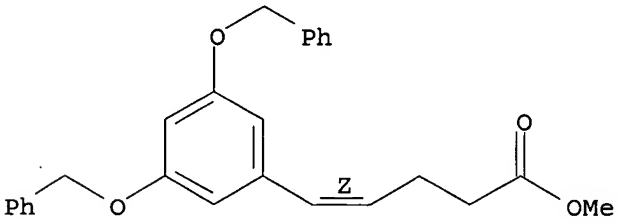
of the resulting BrCH2CH2CHRCO2Me with PPh3.

IT 77523-24-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and cycloaddn. reaction with menthadienol)

RN 77523-24-1 CAPLUS

CN 4-Pentenoic acid, 5-[3,5-bis(phenylmethoxy)phenyl]-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

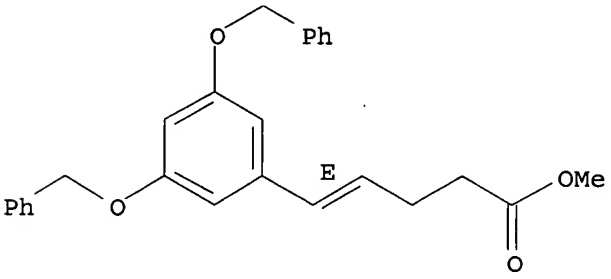


IT 77523-18-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)

RN 77523-18-3 CAPLUS

CN 4-Pentenoic acid, 5-[3,5-bis(phenylmethoxy)phenyl]-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1978:6659 CAPLUS

DOCUMENT NUMBER: 88:6659

TITLE: Synthesis of nitrogen-analogous Δ8-tetrahydrocannabinols

AUTHOR(S): Lotz, Friedhelm; Kraatz, Udo; Korte, Friedhelm

CORPORATE SOURCE: Inst. Chem., Tech. Univ. Muenchen, Freising-Weihenstephan, Fed. Rep. Ger.

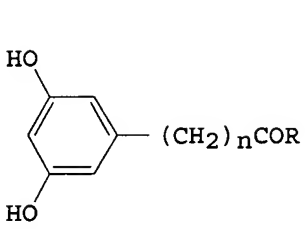
SOURCE: Justus Liebigs Annalen der Chemie (1977), (7), 1132-40
CODEN: JLACBF; ISSN: 0075-4617

DOCUMENT TYPE: Journal

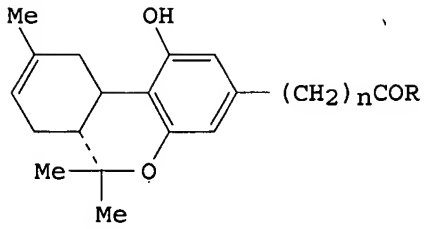
LANGUAGE: German

OTHER SOURCE(S): CASREACT 88:6659

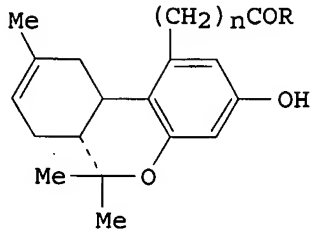
GI



I



II



III

AB Resorcinols I (n = 2, R = MeO; n = 4, R = EtO, 1-piperidinyl) reacted with (+)-trans-2,8-methandien-1-ol to give cannabinols II (n and R the same) and isomeric III (n = 2, R = MeO; n = 4, R = EtO). II (n = 2, R = MeO; n = 4, R = EtO) and Me2NH gave the N analogs II (n = 2, 4; R = NMe2), which were reduced to the corresponding amines. I (n = 4, R = 1-piperidinyl, EtO) were prepared by Wittig olefination of 3,5-(R1O)2C6H3CHO (R1 = Me, PhCH2) with Ph3P+(CH2)3COR2 (R2 = 1-piperidinyl or EtO, resp.) to give 3,5-(R1O)2C6H3CH:CH(CH2)2COR2, which were catalytically hydrogenated. 3,5-(PhCH2O)2C6H3CHO condensed with CH2(CO2H)2 to give 3,5-(PhCH2O)2C6H3CH:CHCO2H which was esterified and the resulting ester hydrogenated to give I (n = 2, R = MeO).

IT 64793-96-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)

RN 64793-96-0 CAPLUS

CN 4-Pentenoic acid, 5-[3,5-bis(phenylmethoxy)phenyl]-, ethyl ester (9CI) (CA INDEX NAME)